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(2) U.S. Department of Interior, Bureau of Mines.

(i) In Chapter I of Title 30, Code of Federal Regulations, the standards requiring safe and healthful working conditions or surroundings in:

Subchapter B—Respiratory Protective Apparatus; Tests for Permissibility; Fees.

Subchapter C—Explosives and Related Articles; Tests for Permissibility and Suitability.

Subchapter D—Electrical Equipment, Lamps, Methane Detectors; Tests for Permissibility; Fees.

Subchapter O—Coal Mine Health and Safety.

(ii) In Chapter II of Title 30 the standards requiring safe and healthful working conditions or surroundings in:

Part 211—Coal-Mining Operating and Safety Regulations.

Part 216—Operating and Safety Regulations Governing the Mining of Coal in Alaska.

Part 221—Oil and Gas Operating Regulations.

Part 231—Operating and Safety Regulations Governing the Mining of Potash; Oil Shale, Sodium, and Phosphate; Sulphur; and Gold, Silver, or Quicksilver; and Other Nonmetallic Minerals, Including Silica Sand.

(3) U.S. Department of Transportation: 49 CFR parts 171-179 and 14 CFR part 103 Hazardous material regulation—Transportation of compressed gases.

(4) U.S. Department of Agriculture Respiratory Devices for Protection against Certain Pesticides—ARS-33-76-2.

(b) Information concerning the applicability of the standards prescribed in paragraph (a) of this section may be obtained from the following offices:

(1) Office of the Bureau of Labor Standards, U.S. Department of Labor, Railway Labor Building, Washington, DC 20210.

(2) The regional and field offices of the Bureau of Labor Standards which are listed in the U.S. Government Organization Manual, 1970-71 edition at p. 324.

(c) In applying the safety and health standards referred to in paragraph (a) of this section the Secretary may add to, strengthen or otherwise modify any standards whenever he considers that the standards do not adequately protect the safety and health of employees

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as required by the Walsh-Healey Public Contracts Act.

[34 FR 7946, May 20, 1969, as amended at 36 FR 9868, May 29, 1971]

§ 50-204.3 Material handling and storage.

(a) Where mechanical handling equipment is used, sufficient safe clearances shall be allowed for aisles, at loading docks, through doorways and wherever turns or passage must be made. Aisles and passageways shall be kept clear and in good repair, with no obstruction across or in aisles that could create a hazard. Permanent aisles and passageways shall be appropriately marked.

(b) Storage of material shall not create a hazard. Bags, containers, bundles, etc. stored in tiers shall be stacked, blocked, interlocked and limited in height so that they are stable and secure against sliding or collapse.

(c) Storage areas shall be kept free from accumulation of materials that constitute hazards from tripping, fire, explosion, or pest harborage. Vegetation control will be exercised when necessary.

(d) Proper drainage shall be provided.

(e) Clearance signs to warn of clearance limits shall be provided.

(f) Derail and/or bumper blocks shall be provided on spur railroad tracks where a rolling car could contact other cars being worked, enter a building, work or traffic area.

(g) Covers and/or guard rails shall be provided to protect personnel from the hazards of open pits, tanks, vats, ditches, etc.

[34 FR 7946, May 20, 1969; 35 FR 1015, Jan. 24, 1970]

§ 50-204.4 Tools and equipment.

Each employer shall be responsible for the safe condition of tools and equipment used by employees, including tools and equipment which may be furnished by employees.

§ 50-204.5 Machine guarding.

(a) One or more methods of machine guarding shall be provided to protect the operator and other employees in the machine area from hazards such as those created by point of operation, in going nip points, rotating parts, flying

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chips and sparks. Examples of guarding methods are—Barrier guards, two hand tripping devices, electronic safety devices, etc.

(b) General requirements for machine guards. Guards shall be affixed to the machine where possible and secured elsewhere if for any reason attachment to the machine is not possible. The guard shall be such that it does not offer an accident hazard in itself.

(c) Point of Operation Guarding.

(1) Point of operation is the area on a machine where work is actually performed upon the material being processed.

(2) Where existing standards prepared by organizations listed in § 50-204.2 provide for point of operation guarding such standards shall prevail. Other types of machines for which there are no specific standards, and the operation exposes an employee to injury, the point of operation shall be guarded. The guarding device shall be so designed and constructed so as to prevent the operator from having any part of his body in the danger zone during the operating cycle.

(3) Special hand tools for placing and removing material shall be such as to permit easy handling of material without the operator placing a hand in the danger zone. Such tools shall not be in lieu of other guarding required by this section, but can only be used to supplement protection provided.

(4) The following are some of the machines which usually require point of operation guarding:

Guillotine cutters.
Shears.
Alligator shears.
Power presses.
Milling machines.
Power saws.
Jointers.
Portable power tools.
Forming rolls and calenders.

(d) Revolving drums, barrels and containers shall be guarded by an enclosure which is interlocked with the drive mechanism, so that the barrel, drum or container cannot revolve unless the guard enclosure is in place.

(e) When the periphery of the blades of a fan is less than seven (7) feet above the floor or working level, the blades shall be guarded. The guard shall have

openings no larger than one half ($\frac{1}{2}$) inch.

(f) Machines designed for a fixed location shall be securely anchored to prevent walking or moving.

§ 50-204.6 Medical services and first aid.

(a) The employer shall ensure the ready availability of medical personnel for advice and consultation on matters of plant health.

(b) In the absence of an infirmary, clinic or hospital in near proximity to the work place which is used for the treatment of all injured employees, a person or persons shall be adequately trained to render first aid. First aid supplies approved by the consulting physician shall be readily available.

(c) Where the eyes or body of any person may be exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use.

[34 FR 7946, May 20, 1969; 35 FR 1015, Jan. 24, 1970]

§ 50-204.7 Personal protective equipment.

Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition whenever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in function of any part of the body through absorption, inhalation or physical contact. Where employees provide their own protective equipment, the employer shall be responsible to assure its adequacy, including proper maintenance and sanitation of such equipment. All personal protective equipment shall be of safe design and construction for the work to be performed.

[35 FR 1015, Jan. 24, 1970]